

Docket No.: FR 020124

**REMARKS****I. INTRODUCTION**

Claims 1, 3, 4, 7, 8, 10, 11 and 13 have been amended. Claim 9 has been cancelled. Thus claims 1-8 and 10-13 are pending in the present application. Applicant would like to thank the Examiner for indicating that claims 6-10 contain allowable subject matter. In view of the above amendments and following remarks, it is respectfully submitted that all of the presently pending claims are allowable.

**II. THE 35 U.S.C. § 112 REJECTIONS SHOULD BE WITHDRAWN**

Claims 4-5 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. (See 09/08/2008 Office Action p. 4). Applicant has amended claim 4 to recite "a class of simultaneous transformations." Thus, Applicant respectfully requests that the Examiner withdraw the rejection of claims 4 and 5.

**III. THE 35 U.S.C. § 103(a) REJECTIONS SHOULD BE WITHDRAWN**

Claims 1-3, and 11-13 stand rejected under 35 U.S.C. § 103(a) as being anticipated by non-patent literature Netsch et al. "Towards real time Multi-modality 3-D medical image registration" (hereinafter "Netsch") in view of Haddad et al. "A new orthogonal transform of signal coding" (hereinafter "Haddad"). (See 09/08/2008 Office Action p. 5-7). Applicant respectfully disagrees.

Claim 1 has been amended to include the allowable subject matter of cancelled claim 9. Accordingly, Applicant respectfully submits that claim 1 is allowable. Because claims 2-3 and 12 depend from and therefore include all of the limitations of claim 1 it is respectfully submitted that these claims are also allowable for at least the same reasons as claim 1.

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Independent claim 11 recites "An image processing method comprising an evaluation of a Hermite Transform ( $K_1$ ) for the evaluation of a windowed correlation function  $K(v)$ , including steps of using the Hermite Transform (HT) of two image signals ( $f(x)$ ,  $g(y)$ ) representing shapes defined in respective windows ( $W1$ ,  $W2$ ) in multi-dimensional images (m-D), wherefrom a step of evaluating an inverse of the Hermite Transform ( $HT^{-1}$ ) is performed to compute said windowed correlation function ( $K(v)$ ), correlating the shapes, repeating the steps of determining the correlation function, as many times as necessary in order to reach a best possible correlation function by modifying at least one rotation matrices ( $R_1$ ,  $R_2$ ), at least one scaling factor ( $\{z_k\}$ ) and by increasing a number of indices ( $I$ ) if more accuracy is needed, and visualizing the correlated shapes and/or processed images." Applicant respectfully submits that claim 11 is allowable for at least the same reasons given above with respect to claim 1.

Independent claim 13 recites "A computer program product having a set of instructions stored on a computer readable memory medium, when in use on a general-purpose computer, to cause the computer to perform the steps of: using a Hermite Transform (HT) of two image signals ( $f(x)$ ,  $g(y)$ ) representing shapes defined in respective windows ( $W1$ ,  $W2$ ) in multi-dimensional images (m-D), wherefrom a step of evaluating an inverse of the Hermite Transform ( $HT^{-1}$ ) is performed to compute a windowed correlation function ( $K(v)$ ), correlating the shapes, repeating the steps of determining the correlation function, as many times as necessary in order to reach a best possible correlation function by modifying at least one rotation matrices ( $R_1$ ,  $R_2$ ), at least one scaling factor ( $\{z_k\}$ ) and by increasing a number of indices ( $I$ ) if more accuracy is needed, and visualizing at least one of the correlated shapes and processed images. Applicant respectfully submits that claim 13 is allowable for at least the same reasons given above with respect to claim 1.

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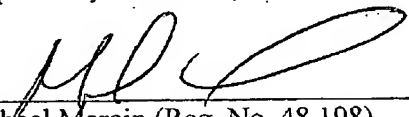
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**CONCLUSION**

In light of the foregoing, Applicants respectfully submit that all of the now pending claims are in condition for allowance. All issues raised by the Examiner having been addressed. An early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

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